

### REMARKS

Claims 1, 2, 10-13, 15-26, 28-41 and 43-58 are presented for consideration, with Claims 1, 16, 22, 28, 30, 40, and 47 being independent. Claims 9, 14, 27 and 42 have been canceled without prejudice or disclaimer of the subject matter recited therein.

Claims 1, 10-13, 15-26, 28, 30 and 40 have been amended and Claims 47-58 have been added. No new matter has been added.

Applicants appreciate the indication that Claims 13, 16, 27, and 30 would be allowable if rewritten in independent form. Claim 1 has been amended to incorporate substantially the features of Claim 27 (and the intervening claims), and Claims 16 and 30 have substantially been rewritten in independent form. Accordingly, Applicants submit that those claims, and the claims depending therefrom, are allowable.

Claim 23 was rejected under 35 U.S.C. §112, second paragraph, as being indefinite. That claim has been amended in accordance with the Examiner's suggestion. Accordingly, reconsideration and withdrawal of the rejection are requested.

Claim 40 was objected to. That claim has been amended in accordance with the Examiner's suggestion. Therefore, Applicants request reconsideration and withdrawal of the objection.

Claims 1, 2, 9-12, 14, 15, 17-26, 28, 29, 31, 32, 34, 35 and 37-39 have been rejected under 35 U.S.C. § 102 as being anticipated by U.S. patent application publication number 2001/0043391 to Shafer et al. ("Shaffer et al. '391"). Applicants respectfully traverse this rejection for the following reasons.

As recited in amended Claim 22, the present invention includes, *inter alia*, the feature wherein a first optical unit has a magnification BGM1, which satisfies a relation

-1.2<1/BGM1<0.4. Applicants submit that Shafer et al. '391 does not disclose or suggest at least that feature. Specifically, that document does not disclose specific numerical values in relation to Figs. 1 and 2, and therefore does not disclose or suggest at least the claimed condition. Since the drawings of that document are merely schematic, exact dimensions cannot be obtained by measuring the "size" being illustrated.

Regarding amended Claim 28, that claim includes, among others, the feature wherein a relation  $0.45 < \text{LFM1}/\text{LFM2} < 0.8$  is satisfied, where LFM1 is a distance between a second field mirror and a first field mirror, and LFM 2 is a distance between the second field mirror and the image plane. Applicants submit that Shaffer et al. '391 also fails to disclose or suggest at least that claimed feature.

Claims 40-44 and 46 have been rejected under 35 U.S.C. § 102 as being anticipated by U.S. Patent No. 4,747,678 also to Shafer et al. ("Shafer et al. '678"). Applicants respectfully traverse this rejection for the reasons discussed below.

As recited in Claim 40, the present invention includes, *inter alia*, the feature of first and second imaging optical systems arranged along a common optical axis. Support for this amendment can be found in the original disclosure, for example, at least in original claim 1 and in the drawings. (Note that the optical components of these imaging optical systems need not all be on the optical axis, but rather merely along a common optical axis.) Applicants submit that Shafer et al. '678 fails to disclose or suggest at least this feature. Accordingly, Applicants submit that Claim 40 is patentable over the cited art.

New independent Claim 47 recites a feature similar to that discussed above with respect to Claim 40, and Claim 47 is believed patentable for similar reasons.

The dependent claims are patentable for the same reasons as the independent claims from which they depend, as well as for the additional features they recite.

In view of the foregoing, favorable reconsideration, withdrawal of the objection and rejections, and allowance of this application are respectfully requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



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